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MODIS Science Data Support Team (SDST) Meeting Minutes 09/11/92

ATTENDEES: Lloyd Carpenter, Paul Chan, Jy-Tai Chang, Larry Fishtahler, Al Fleig, Tom Goff, Liam Gumley, Rick Hatfield, Paul Hubanks, Ed Masuoka, Jeff Olsenholler, Jim Ormsby, J. J. Pan, Shahin Samadi, Lalit Wanchoo, Will Webster

NEXT MEETING: Date Time Building Room
Friday, September 18 10:00 am 22 G95

NOTE: THERE WILL BE NO MEETING ON FRIDAY, SEPTEMBER 25, 1992

TOPICS:

1. MODIS AIRBORNE SIMULATOR (MAS): Liam Gumley reported on MAS data processing and software development. Processing MAS FIRE and ASTEX data sets is awaiting the final set of visible/near-IR calibration coefficients. The calibration data from FIRE were processed this week. Noise estimates for the ASTEX data were computed from a selected clear ocean region. Results were sent to Chris Moeller. The remainder of the ASTEX data were received from Ames. More than half of the 9-track FIRE tapes have been copied to Exabyte 8500 by Brenda Colesanti.

Liam also installed compiled copies of the netCDF library on the anonymous FTP site for Silicon Graphics Iris, IBM PC, and DEC VAX.

A list of currently generated (and other possible) candidates for automatic metadata generation was presented.

2. MODIS HIGHER-LEVEL PROCESSING SHELL DESIGN: J.J. Pan described the revised version of the dependency diagram which was prepared for the MODIS Science Team Leader. The new diagram groups the algorithms according to discipline (ocean, atmosphere, or land) and indicates, for each product, whether it is "Selected, At-Launch", "Selected, Post-Launch", "Not-Selected, At-Launch", or "Not-Selected, Post-Launch". The diagram helps to identify inconsistencies in the current processing scheme. The diagram will be continually updated as new or revised information is received from the Team Members.

J.J. is examining CFORTRAN as a tool for interfacing between C and Fortran main programs, subroutines, functions, and global data. He is also examining the calling interfaces and utilities provided by the Hierarchical Data Format (HDF) created at the National Center for Supercomputing Applications (NCSA).

3. USING MICROSOFT PROJECT: Tom Goff discussed the success he has had in using Microsoft Project version 3.0 on the PC for planning MODIS projects. MODIS Level-1A design and Level-1B design were interred as sub-projects, along with others. Shared resources and external milestones are contained in a separate sub-project which has no tasks. Resources assigned to more than one task are balanced by Microsoft Project by adjusting the start times of individual tasks (taking milestones, assigned priorities, linking between tasks, and other constraints into account). The results may be modified by adjusting the constraints.

Satisfactory results were not achieved with the earlier version of Microsoft Project. It was also necessary to increase the main memory in the PC to eight megabytes in order to reduce the leveling time to fifteen minutes. A co-processor is

expected to further increase the speed. A corresponding version of Microsoft Project for the MAC is expected out in a month or two.

ACTION ITEMS:

04/24/92 [Lloyd Carpenter & Team] Develop a staffing plan for the accomplishment of the tasks shown on the schedule. (A draft version of the staffing plan has been developed and delivered.) STATUS: Open. Due Date: 06/12/92

06/12/92 [Tom Goff, Carroll Hood] Develop separate detailed schedules using Microsoft Project for Level-1A and -1B software design and development. (Updated results were discussed in the handout. STATUS: Open. Due Date: 07/10/92

07/31/92 [Tom Goff, Ed Masuoka, Al Fleig] Develop the purpose and requirements for a packet simulator. Get more information on the packet simulator being developed by SBRC. (An updated requirements specification was included in the handout on 09/04/92. Tom, Ed, and Al are to meet and discuss coordination with Jerry Hyde of SBRC.) STATUS: Open. Due Date: 09/04/92